



General

Title

Diagnosis and management of type 2 diabetes mellitus (T2DM) in adults: percentage of patients ages 18 to 75 years old with T2DM who are optimally managed, according to the specified components.

Source(s)

Redmon B, Caccamo D, Flavin P, Michels R, O'Connor P, Roberts J, Smith S, Sperl-Hillen J. Diagnosis and management of type 2 diabetes mellitus in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2014 Jul. 85 p. [197 references]

Measure Domain

Primary Measure Domain

Clinical Quality Measures: Outcome

Secondary Measure Domain

Clinical Quality Measure: Process

Brief Abstract

Description

This measure is used to assess the percentage of patients ages 18 to 75 years old with type 2 diabetes mellitus (T2DM) who achieve any or all of the following control criteria:

Glycated hemoglobin (HgbA1c) less than 8%

Most recent blood pressure measurement less than 140/90 mmHg

Tobacco free

Established atherosclerotic cardiovascular disease (ASCVD) with documented daily aspirin use (unless contraindicated)

Ages 40 to 75 years with T2DM and untreated low-density lipoprotein (LDL) greater than 70 mg/dL who are prescribed statin therapy

All of the above

This measure represents the composite rate. This measure should be calculated as both an individual component met and a composite (all components met at the same time) measure. See the "Basis for

Disaggregation" field for details.

Rationale

The priority aim addressed by this measure is to increase the percentage of patients ages 18 to 75 years with type 2 diabetes mellitus (T2DM) who are optimally managed.

Due to the high percentage of the United States (U.S.) population that is diagnosed with diabetes and the effect diabetes has on other comorbidities, appropriate management will improve the patient's experience of care and the health of the population, reducing office visits, emergency department visits, and cardiovascular complications. Other related conditions will in turn reduce the total cost of care.

Appropriate medication management targeting glycemic control, hypertension, and lipid management is important for reducing morbidity and mortality, and improving long-term quality of life for patients diagnosed with T2DM. Lifestyle changes such as nutrition therapy, weight loss, increased exercise, and appropriate education and self-management strategies are pivotal to improved outcomes. Inadequate access to care for chronic disease management as well as the cost of medication can contribute to poor control of T2DM and associated cardiovascular risk factors.

For most chronic diseases, including diabetes, the most efficient improvement strategy is to focus on a limited number of specific improvement goals. These may be based on observed gaps in care, potential clinical impact, cost considerations or other criteria (O'Connor, 2005). In T2DM, focusing on glycemic control, lipid control and blood pressure control is a strategy that has been shown to be effective in preventing up to 53% of heart attacks and strokes, the leading drivers of excess mortality and costs in adults with diabetes (Gaede et al., 2003).

Evidence for Rationale

Gaede P, Vedel P, Larsen N, Jensen GV, Parving HH, Pedersen O. Multifactorial intervention and cardiovascular disease in patients with type 2 diabetes. N Engl J Med. 2003 Jan 30;348(5):383-93. PubMed

O'Connor PJ. Commentary--improving diabetes care by combating clinical inertia. Health Serv Res. 2005 Dec;40(6 Pt 1):1854-61. PubMed

Redmon B, Caccamo D, Flavin P, Michels R, O'Connor P, Roberts J, Smith S, Sperl-Hillen J. Diagnosis and management of type 2 diabetes mellitus in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2014 Jul. 85 p. [197 references]

Primary Health Components

Type 2 diabetes mellitus (T2DM); atherosclerotic cardiovascular disease (ASCVD); glycated hemoglobin (HgbA1c); blood pressure; low-density lipoprotein (LDL); statin therapy; tobacco use; aspirin use

Denominator Description

Number of patients ages 18 to 75 years old with type 2 diabetes mellitus (T2DM) (see the related "Denominator Inclusions/Exclusions" field)

Numerator Description

Number of patients who achieve all of the following control criteria:

Glycated hemoglobin (A1c) less than 8%

Most recent blood pressure measurement less than 140/90 mmHg

Tohacco free

Established atherosclerotic cardiovascular disease (ASCVD) with documented daily aspirin use (unless contraindicated)

Ages 40 to 75 years with type 2 diabetes mellitus (T2DM) with untreated low-density lipoprotein (LDL) greater than 70 mg/dL who are prescribed statin therapy

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A clinical practice guideline or other peer-reviewed synthesis of the clinical research evidence

Additional Information Supporting Need for the Measure

- Diabetes is a chronic disease that afflicts approximately 26.9% of United States (U.S.) residents aged 65 years and older. 1.9 million are diagnosed with diabetes every year, and an additional 7.0 million go undiagnosed and untreated (Centers for Disease Control and Prevention [CDC], 2011). More than 1 in 5 health care dollars in the U.S. goes to the care of people with diagnosed diabetes, costing \$245 billion dollars annually.
- The benefits of a multifactorial approach to diabetes care are supported by the results of the Steno 2 Study of 160 patients with type 2 diabetes mellitus (T2DM) and microalbuminuria. Multifactorial interventions achieved a 50% reduction in mortality and significant reduction in microvascular complications five years after ending a 7.8-year multifactorial intervention that achieved glycated hemoglobin (A1c) of 7.8%, low-density lipoprotein (LDL) 83 mg/dL, blood pressure (BP) 131/73, compared to a conventional group that achieved A1c 9%, LDL 126 mg/dL and BP 146/78 (Gaede et al., 2008). Results of this study are consistent with the need for reasonable blood glucose control with emphasis on blood pressure and lipid management.
- Hospitalized patients with diabetes suffer increased morbidity, mortality, length of stay, and other related hospital costs compared to non-hyperglycemic inpatients (Umpierrez et al., 2002).
- Hyperglycemia has been associated with increased infection rates and poorer short-term and long-term outcomes in critically ill patients in the intensive care unit, post-myocardial infarction, and post-surgical settings (van den Berghe et al., 2001).
- There is a substantial increase in the prevalence of depression among people with diabetes as compared to the general adult population (Anderson et al., 2001). Depression impacts the ability of a person with diabetes to achieve blood glucose control, which in turn impacts the rate of development of diabetes complications (de Groot et al., 2001; Lustman & Gavard, 2001).
- Sleep apnea is a prevalent condition in obese patients with type 2 diabetes and is associated with significant comorbidities including hypertension, cardiovascular disease and insulin resistance.
- Up to 21% of patients with T2DM are found to have retinopathy at the time of diagnosis of diabetes mellitus (Fong et al., 2004). Generally retinopathy progresses from mild background abnormalities to preproliferative retinopathy to proliferative retinopathy.
- Achieving near-normal glycemic control lowers risk of diabetes microvascular complications such as retinopathy, nephropathy and amputations. Achieving A1c of 6.9 to 7.9% may also significantly reduce macrovascular complications based on Steno-2 and UK Prospective Diabetes Study (UKPDS) data (Hemmingsen et al., 2013; Callaghan et al., 2012; Anderson et al., 2011; Action to Control Cardiovascular Risk in Diabetes Study Group et al., 2008; ACCORD Study Group et al., 2010; Ismail-Beigi et al., 2010; Duckworth et al., 2009; NICE-SUGAR Study Investigators et al., 2009; Ray et al., 2009; Turnbull et al., 2009; Abraira et al., 2009; ADVANCE Collaborative Group et al., 2008; Gaede et al., 2008; Holman et al., 2008).
- Tobacco smoking increases risk of macrovascular complications 4% to 400% in adults with T2DM and

- also increases risk of macrovascular complications. Tobacco cessation is very likely to be the single most beneficial intervention that is available, and it should be emphasized by clinicians.
- Uncontrolled hypertension is a major cardiovascular risk factor that also accelerates the progression of diabetic nephropathy (Morrish et al., 1991).
- Seventy to seventy-five percent of adult patients with diabetes die of macrovascular disease, specifically coronary, carotid and/or peripheral vascular disease. In most patients with diabetes, use of a statin can reduce major vascular events.

Evidence for Additional Information Supporting Need for the Measure

Abraira C, Duckworth WC, Moritz T, VADT Group. Glycaemic separation and risk factor control in the Veterans Affairs Diabetes Trial: an interim report. Diabetes Obes Metab. 2009 Feb;11(2):150-6. PubMed

ACCORD Study Group, ACCORD Eye Study Group, Chew EY, Ambrosius WT, Davis MD, Danis RP, Gangaputra S, Greven CM, Hubbard L, Esser BA, Lovato JF, Perdue LH, Goff DC, Cushman WC, Ginsberg HN, Elam MB, Genuth S, Gerstein HC, Schubart U, Fine LJ. Effects of medical therapies on retinopathy progression in type 2 diabetes. N Engl J Med. 2010 Jul 15;363(3):233-44. PubMed

Action to Control Cardiovascular Risk in Diabetes Study Group, Gerstein HC, Miller ME, Byington RP, Goff DC Jr, Bigger JT, Buse JB, Cushman WC, Genuth S, Ismail-Beigi F, Grimm RH Jr, Probstfield JL, Simons-Morton DG, Friedewald WT. Effects of intensive glucose lowering in type 2 diabetes. N Engl J Med. 2008 Jun 12;358(24):2545-59. PubMed

ADVANCE Collaborative Group, Patel A, MacMahon S, Chalmers J, Neal B, Billot L, Woodward M, Marre M, Cooper M, Glasziou P, Grobbee D, Hamet P, Harrap S, Heller S, Liu L, Mancia G, Mogensen CE, Pan C, Poulter N, Rodgers A, Williams B, Bompoint S, de Galan BE, Joshi R, Travert F. Intensive blood glucose control and vascular outcomes in patients with type 2 diabetes. N Engl J Med. 2008 Jun 12;358(24):2560-72. PubMed

Anderson RJ, Freedland KE, Clouse RE, Lustman PJ. The prevalence of comorbid depression in adults with diabetes: a meta-analysis. Diabetes Care. 2001 Jun;24(6):1069-78. PubMed

Anderson RT, Narayan KM, Feeney P, Goff D Jr, Ali MK, Simmons DL, Sperl-Hillen JA, Bigger T, Cuddihy R, O'Conner PJ, Sood A, Zhang P, Sullivan MD, Action to Control Cardiovascular Risk in Diabetes (ACCORD) Investigators. Effect of intensive glycemic lowering on health-related quality of life in type 2 diabetes: ACCORD trial. Diabetes Care. 2011 Apr;34(4):807-12. PubMed

Callaghan BC, Little AA, Feldman EL, Hughes RA. Enhanced glucose control for preventing and treating diabetic neuropathy. Cochrane Database Syst Rev. 2012;6:CD007543. PubMed

Centers for Disease Control and Prevention (CDC). National diabetes fact sheet, 2011: fast facts on diabetes. Atlanta (GA): Centers for Disease Control and Prevention (CDC); 2011.

de Groot M, Anderson R, Freedland KE, Clouse RE, Lustman PJ. Association of depression and diabetes complications: a meta-analysis. Psychosom Med. 2001 Jul-Aug;63(4):619-30. PubMed

Duckworth W, Abraira C, Moritz T, Reda D, Emanuele N, Reaven PD, Zieve FJ, Marks J, Davis SN, Hayward R, Warren SR, Goldman S, McCarren M, Vitek ME, Henderson WG, Huang GD, VADT Investigators. Glucose control and vascular complications in veterans with type 2 diabetes. N Engl J Med. 2009 Jan 8;360(2):129-39. PubMed

Fong DS, Aiello L, Gardner TW, King GL, Blankenship G, Cavallerano JD, Ferris FL 3rd, Klein R. Retinopathy in diabetes. Diabetes Care. 2004 Jan;27(Suppl 1):S84-7. [10 references] PubMed

Gaede P, Lund-Andersen H, Parving HH, Pedersen O. Effect of a multifactorial intervention on mortality in type 2 diabetes. N Engl J Med. 2008 Feb 7;358(6):580-91. PubMed

Hemmingsen B, Lund SS, Gluud C, Vaag A, Almdal TP, Hemmingsen C, Wetterslev J. Targeting intensive glycaemic control versus targeting conventional glycaemic control for type 2 diabetes mellitus. Cochrane Database Syst Rev. 2013;11:CD008143. PubMed

Holman RR, Paul SK, Bethel MA, Neil HA, Matthews DR. Long-term follow-up after tight control of blood pressure in type 2 diabetes. N Engl J Med. 2008 Oct 9;359(15):1565-76.

Ismail-Beigi F, Craven T, Banerji MA, Basile J, Calles J, Cohen RM, Cuddihy R, Cushman WC, Genuth S, Grimm RH, Hamilton BP, Hoogwerf B, Karl D, Katz L, Krikorian A, O'Connor P, Pop-Busui R, Schubart U, Simmons D, Taylor H, Thomas A, Weiss D, Hramiak I, ACCORD trial group. Effect of intensive treatment of hyperglycaemia on microvascular outcomes in type 2 diabetes: an analysis of the ACCORD randomised trial. Lancet. 2010 Aug 7;376(9739):419-30. PubMed

Lustman PJ, Gavard JA. Psychosocial aspects of diabetes in adult populations. In: National Diabetes Data Group. Diabetes in America. 2nd ed. Bethesda (MD): National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases; 1995. p. 507-18.

Morrish NJ, Stevens LK, Fuller JH, Jarrett RJ, Keen H. Risk factors for macrovascular disease in diabetes mellitus: the London follow-up to the WHO Multinational Study of Vascular Disease in Diabetics. Diabetologia. 1991 Aug;34(8):590-4. PubMed

NICE-SUGAR Study Investigators, Finfer S, Chittock DR, Su SY, Blair D, Foster D, Dhingra V, Bellomo R, Cook D, Dodek P, Henderson WR, Hebert PC, Heritier S, Heyland DK, McArthur C, McDonald E, Mitchell I, Myburgh JA, Norton R, Potter J, Robinson BG, Ronco JJ. Intensive versus conventional glucose control in critically ill patients. N Engl J Med. 2009 Mar 26;360(13):1283-97. PubMed

Ray KK, Seshasai SR, Wijesuriya S, Sivakumaran R, Nethercott S, Preiss D, Erqou S, Sattar N. Effect of intensive control of glucose on cardiovascular outcomes and death in patients with diabetes mellitus: a meta-analysis of randomised controlled trials. Lancet. 2009 May 23;373(9677):1765-72. PubMed

Redmon B, Caccamo D, Flavin P, Michels R, O'Connor P, Roberts J, Smith S, Sperl-Hillen J. Diagnosis and management of type 2 diabetes mellitus in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2014 Jul. 85 p. [197 references]

Turnbull FM, Abraira C, Anderson RJ, Byington RP, Chalmers JP, Duckworth WC, Evans GW, Gerstein HC, Holman RR, Moritz TE, Neal BC, Ninomiya T, Patel AA, Paul SK, Travert F, Woodward M, Control Group. Intensive glucose control and macrovascular outcomes in type 2 diabetes. Diabetologia. 2009 Nov;52(11):2288-98. PubMed

Umpierrez GE, Isaacs SD, Bazargan N, You X, Thaler LM, Kitabchi AE. Hyperglycemia: an independent marker of in-hospital mortality in patients with undiagnosed diabetes. J Clin Endocrinol Metab. 2002 Mar;87(3):978-82. PubMed

van den Berghe G, Wouters P, Weekers F, Verwaest C, Bruyninckx F, Schetz M, Vlasselaers D, Ferdinande P, Lauwers P, Bouillon R. Intensive insulin therapy in the critically ill patients. N Engl J Med. 2001 Nov 8;345(19):1359-67. PubMed

Extent of Measure Testing

National Guideline Clearinghouse Link

Diagnosis and management of type 2 diabetes mellitus in adults.

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Ambulatory/Office-based Care

Professionals Involved in Delivery of Health Services

not defined yet

Least Aggregated Level of Services Delivery Addressed

Clinical Practice or Public Health Sites

Statement of Acceptable Minimum Sample Size

Unspecified

Target Population Age

Age 18 to 75 years

Target Population Gender

Either male or female

National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim

National Quality Strategy Priority

Prevention and Treatment of Leading Causes of Mortality

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need

Living with Illness

IOM Domain

Effectiveness

Data Collection for the Measure

Case Finding Period

The time frame pertaining to data collection is the past 12 months.

Denominator Sampling Frame

Patients associated with provider

Denominator (Index) Event or Characteristic

Clinical Condition

Encounter

Patient/Individual (Consumer) Characteristic

Denominator Time Window

not defined yet

Denominator Inclusions/Exclusions

Inclusions

Number of patients ages 18 to 75 years old who have type 2 diabetes mellitus (T2DM)

Data Collection: Data should be collected from electronic medical records (EMR) for all patient visits in the past 12 months.

Exclusions

Unspecified

Exclusions/Exceptions

not defined yet

Numerator Inclusions/Exclusions

Inclusions

Number of patients who achieve all of the following control criteria:

Glycated hemoglobin (HgbA1c) less than 8%

Most recent blood pressure measurement less than 140/90 mmHg

Tobacco free

Established atherosclerotic cardiovascular disease (ASCVD) with documented daily aspirin use (unless contraindicated)

Ages 40 to 75 years with type 2 diabetes mellitus (T2DM) and untreated low-density lipoprotein (LDL) greater than 70 mg/dL who are prescribed statin therapy

Exclusions

Unspecified

Numerator Search Strategy

Fixed time period or point in time

Data Source

Electronic health/medical record

Type of Health State

Physiologic Health State (Intermediate Outcome)

Instruments Used and/or Associated with the Measure

Unspecified

Computation of the Measure

Measure Specifies Disaggregation

Measure is disaggregated into categories based on different definitions of the denominator and/or numerator

Basis for Disaggregation

This measure is disaggregated based on different definitions of the denominator and numerator. This measure should be calculated as both an individual component met and a composite (all components met at the same time) measure.

Denominators:

Number of patients ages 18 to 75 years old who have type 2 diabetes mellitus (T2DM)

Number of patients ages 18 to 75 years old who have T2DM

Number of patients ages 18 to 75 years old who have T2DM

Number of patients ages 18 to 75 years old who have T2DM and established atherosclerotic cardiovascular disease (ASCVD)

Number of patients ages 40 to 75 years old who have T2DM and untreated low-density lipoprotein (LDL) greater than 70 mg/dL

Number of patients ages 18 to 75 years old who have T2DM

Numerators:

Number of patients with glycated hemoglobin (HgbA1c) less than 8%

Number of patients with most recent blood pressure measurement less than 140/90 mmHg

Number of patients who are tobacco free

Number of patients with established ASCVD with documented daily aspirin use (unless contraindicated)

Number of patients ages 40 to 75 years with type 2 diabetes and untreated LDL greater than 70 mg/dL who are prescribed statin therapy

Number of patients with all of the above

Scoring

Composite/Scale

Rate/Proportion

Interpretation of Score

Desired value is a higher score

Allowance for Patient or Population Factors

not defined yet

Standard of Comparison

not defined yet

Identifying Information

Original Title

Diabetes optimal care.

Measure Collection Name

Diagnosis and Management of Type 2 Diabetes Mellitus in Adults

Submitter

Developer

Institute for Clinical Systems Improvement - Nonprofit Organization

Funding Source(s)

The Institute for Clinical Systems Improvement's (ICSI's) work is funded by the annual dues of the member medical groups and five sponsoring health plans in Minnesota and Wisconsin.

Composition of the Group that Developed the Measure

Work Group Members: Bruce Redmon, MD (Work Group Leader) (University of Minnesota) (Endocrinology); David Caccamo, MD (HealthPartners Medical Group and Regions Hospital) (Family Medicine); Ryan Michels, PharmD, BCPS (HealthPartners Medical Group and Regions Hospital) (Pharmacy); Patrick O'Connor, MD (HealthPartners Medical Group and Regions Hospital) (Family Medicine); Julie Roberts, MS, RD, CDE (HealthPartners Medical Group and Regions Hospital) (Health Education); JoAnn Sperl-Hillen, MD (HealthPartners Medical Group and Regions Hospital) (Internal Medicine); Steve Smith, MD (Mayo Clinic) (Endocrinology); Penny Louise Flavin, DNP, RN, CNP (Olmsted Medical Center) (Family Practice); Cassie Myers (Institute for Clinical Systems Improvement [ICSI]) (Project Manager); Linda Setterlund, MA, CPHQ (ICSI) (Clinical Systems Improvement Facilitator)

Financial Disclosures/Other Potential Conflicts of Interest

The Institute for Clinical Systems Improvement (ICSI) has long had a policy of transparency in declaring potential conflicting and competing interests of all individuals who participate in the development, revision and approval of ICSI guidelines and protocols.

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Where there are work group members with identified potential conflicts, these are disclosed and discussed at the initial work group meeting. These members are expected to recuse themselves from related discussions or authorship of related recommendations, as directed by the Conflict of Interest committee or requested by the work group.

The complete ICSI policy regarding Conflicts of Interest is available at the ICSI Web site

Disclosure of Potential Conflicts of Interest

David Caccamo, MD (Work Group Member)

Family Physician, Family Medicine, HealthPartners Medical Group and Regions Hospital

National, Regional, Local Committee Affiliations: None

Guideline Related Activities: None

Research Grants: None

Financial/Non-Financial Conflicts of Interest: None

Penny Louise Flavin, DNP, RN, CNP (Work Group Member)

Family Practice, Olmsted Medical Center

National, Regional, Local Committee Affiliations: None

Guideline Related Activities: None

Research Grants: None

Financial/Non-Financial Conflicts of Interest: None

Ryan Michels, PharmD, BCPS (Work Group Member)

Clinical Pharmacist, HealthPartners Medical Group and Regions Hospital

National, Regional, Local Committee Affiliations: None

Guideline Related Activities: None

Research Grants: None

Financial/Non-Financial Conflicts of Interest: None

Patrick O'Connor, MD (Work Group Member)

Family Medicine/Geriatrics, Senior Clinical Investigator, HealthPartners Medical Group and Regions

Hospital

National, Regional, Local Committee Affiliations: None

Guideline Related Activities: Lipid Management in Adults, Diagnosis and Treatment of Hypertension Research Grants: Received institutional payment for research grants from NIH (National Institutes of Health), AHRQ (Agency for Healthcare Research and Quality, NIMH (National Institute of Mental Health), NHLBI (National Heart, Lung and Blood Institute) and to develop standards of diabetes care for American Diabetes Association

Financial/Non-Financial Conflicts of Interest: None

Bruce Redmon, MD (Work Group Member)

Endocrinology, Professor, University of Minnesota Medical School

National, Regional, Local Committee Affiliations: None

Guideline Related Activities: None

Research Grants: NIH (National Institutes of Health) related to ongoing diabetes clinical trial, including

the Look Ahead study and GRADE study

Financial/Non-Financial Conflicts of Interest: Consults for the University of Minnesota and Optum Insight

and is paid directly to the physician's employer

Julie Roberts, MS, RD, CDE (Work Group Member)

Registered Dietician, HealthPartners Medical Group and Regions Hospital

National, Regional, Local Committee Affiliations: None

Guideline Related Activities: None

Research Grants: None

Financial/Non-Financial Conflicts of Interest: None

Steve Smith, MD (Work Group Member)

Endocrinology, Consultant, Medical Director of Patient Education, Mayo Clinic

National, Regional, Local Committee Affiliations: None

Guideline Related Activities: None

Research Grants: None

Financial/Non-Financial Conflicts of Interest: None

JoAnn Sperl-Hillen, MD (Work Group Member)

Internal Medicine, Investigator, HealthPartners Medical Group and Regions Hospital

National, Regional, Local Committee Affiliations: None

Guideline Related Activities: Has served on guideline group for BMJ Online T2DM guideline

Research Grants: Receives programmatic support paid to her institution for the following: Stimulated Diabetes Training for Resident Physicians (NIDDK funded), Primary investigator; Personalized Physician Learning for HTN (NHLBI), co-investigator; Priorities (NHLBI), co-investigator; Hyperlink (NHLBI), co-investigator; travel and expenses paid for by an educational grant from Sanofi through the International

Diabetes Center

Financial/Non-Financial Conflicts of Interest: None

Adaptation

This measure was not adapted from another source.

Date of Most Current Version in NQMC

2014 Jul

Measure Maintenance

Scientific documents are revised every 12 to 24 months as indicated by changes in clinical practice and literature.

Date of Next Anticipated Revision

The next scheduled revision will occur within 24 months.

Measure Status

This is the current release of the measure.

This measure updates a previous version: Riethof M, Flavin PL, Lindvall B, Michels R, O'Connor P, Redmon P, Retzer K, Roberts J, Smith S, Sperl-Hillen J, Institute for Clinical Systems Improvement (ICSI). Diagnosis and management of type 2 diabetes mellitus in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2012 Apr. 141 p.

The measure developer reaffirmed the currency of this measure in January 2016.

Measure Availability

Source available for purchase from the Institute for Clinical Systems Improvement (ICSI) Web site
. Also available to ICSI members for free at the ICSI Web site
and to Minnesota health care organizations free by request at the ICSI Web site
or more information, contact ICSI at 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425;
hone: 952-814-7060; Fax: 952-858-9675; Web site: www.icsi.org ; E-mail:
rsi info@icsi ora

NQMC Status

This NQMC summary was completed by ECRI Institute on May 6, 2013.

This NQMC summary was updated by ECRI Institute on January 5, 2015.

The information was reaffirmed by the measure developer on January 13, 2016.

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Production

Source(s)

Redmon B, Caccamo D, Flavin P, Michels R, O'Connor P, Roberts J, Smith S, Sperl-Hillen J. Diagnosis and management of type 2 diabetes mellitus in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2014 Jul. 85 p. [197 references]

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